

**M e m o r a n d u m***Flex your power!  
Be energy efficient!*

**To:** MR. YEN-HSI DENG  
Structures Design  
Office of Bridge Design-South  
Bridge Design Branch 15  
MS #9-3/3G

Attention: Mr. Paul Chung

**Date:** February 3, 2005

**File:** 11-SD-15-KP 30.29  
11-080931  
Sabre Springs  
Main Access Ramp  
Br. No. 57-1135

**From:** DEPARTMENT OF TRANSPORTATION  
DIVISION OF ENGINEERING SERVICES  
GEOTECHNICAL SERVICES  
OFFICE OF GEOTECHNICAL DESIGN – SOUTH 2  
BRANCH B, MS #5

**Subject:** Revised Foundation Recommendations

The following revised foundation recommendation is being provided in response to a memorandum from the Office of Bridge Design South (OBDS) dated January 24, 2005, requesting revised foundation recommendations to the Foundation Recommendation Report, dated December 22, 2003, for the proposed Sabre Springs Main Access Ramp (Br. No. 57-1135). This revised foundation recommendation was prepared to address the increased load demand provided by OBDS at the Bent 4 Column 1 location of the Main Access Ramp structure (Br. No. 57-1135). The increased load demand was due to the relocation of Column 1 to avoid conflicts with underground utilities. The sole purpose for this revised foundation recommendations is to provide a new specified tip elevation shown below in Table 1. All other recommendations in the December 22, 2003 report are still applicable.

**Table 1: Pile Data: Sabre Springs Main Access Ramp (Br. No. 57-1135)**

Location*	Pile Type	Design Loading	Nominal Resistance		Pile Cut-off Elevation	Design Tip Elevation	Specified Tip Elevation
			Compression	Tension			
Bent 4 Col 1	2.1 m CIDH	N/A	11,800 kN	-0-	159.7 m	141.9 m (1)	141.9 m

Note: Design tip elevation is controlled by the following demands: (1) Compression

\* Bent columns (Col) are numbered, beginning with the number 1 and increasing from left to right looking up station.

Any questions regarding the above recommendations should be directed to the attention of D. TM Liao, (916) 227-5756 (CALNET 498-5756), or Mark DeSalvatore, (916) 227-5391 (CALNET 498-5391), at the Office of Geotechnical Design-South 2-Branch B.

MR. YEN-HSI DENG  
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Prepared by: Date: 2/3/05



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